



Walt Disney World  
EPCOT CENTER

# MICKEY and GOOFY

explore the

## UNIVERSE OF ENERGY

PRESENTED BY  
**EXON**

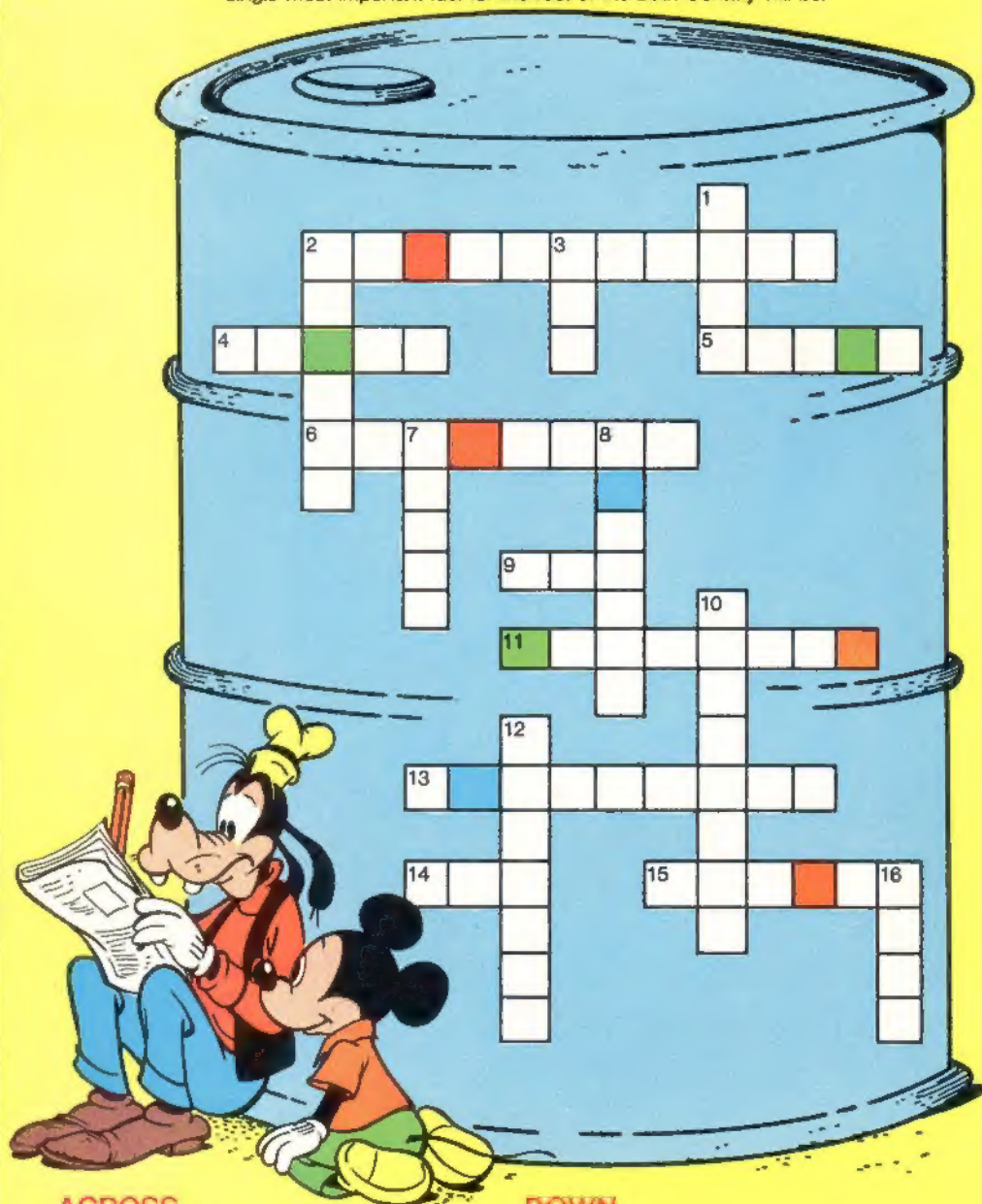


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# Have a BARREL OF FUN... GO ON A WORD QUEST!

Complete the puzzle by writing in the correct words that go across and down. When you're finished, unscramble the letters in the colored squares. You'll soon discover what America's single most important fuel for the rest of the 20th Century will be!



## ACROSS

2. Power for the TV
4. Power from water
5. To bore a hole
6. Fuel for a car
9. A car's lubricant
11. A support for offshore oil production
13. Vessel that searches for oil
14. Fuel for cooking
15. One site of abundant U.S. oil

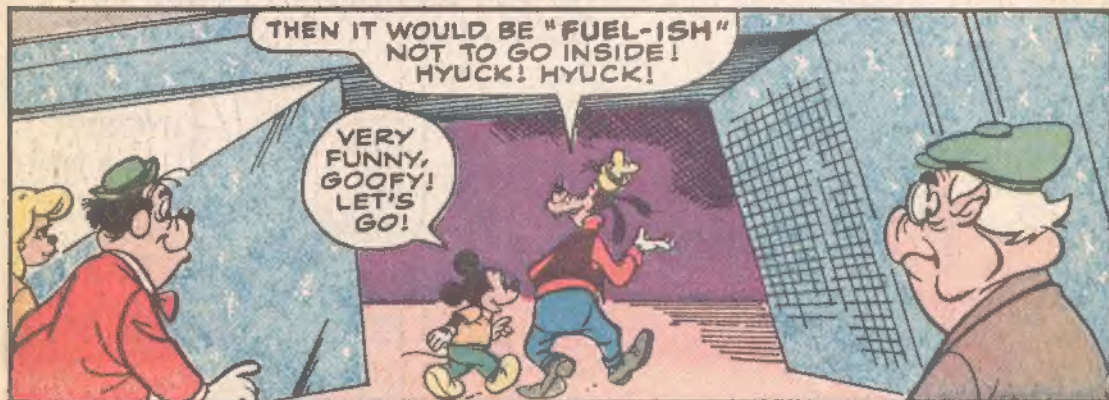
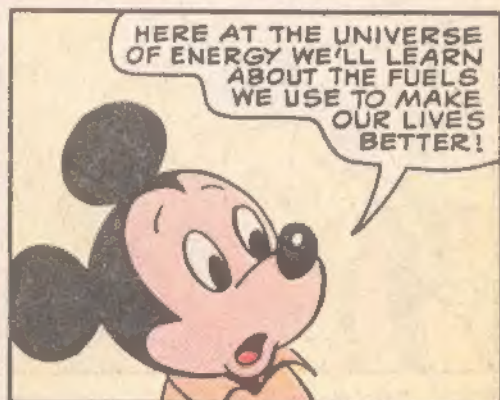
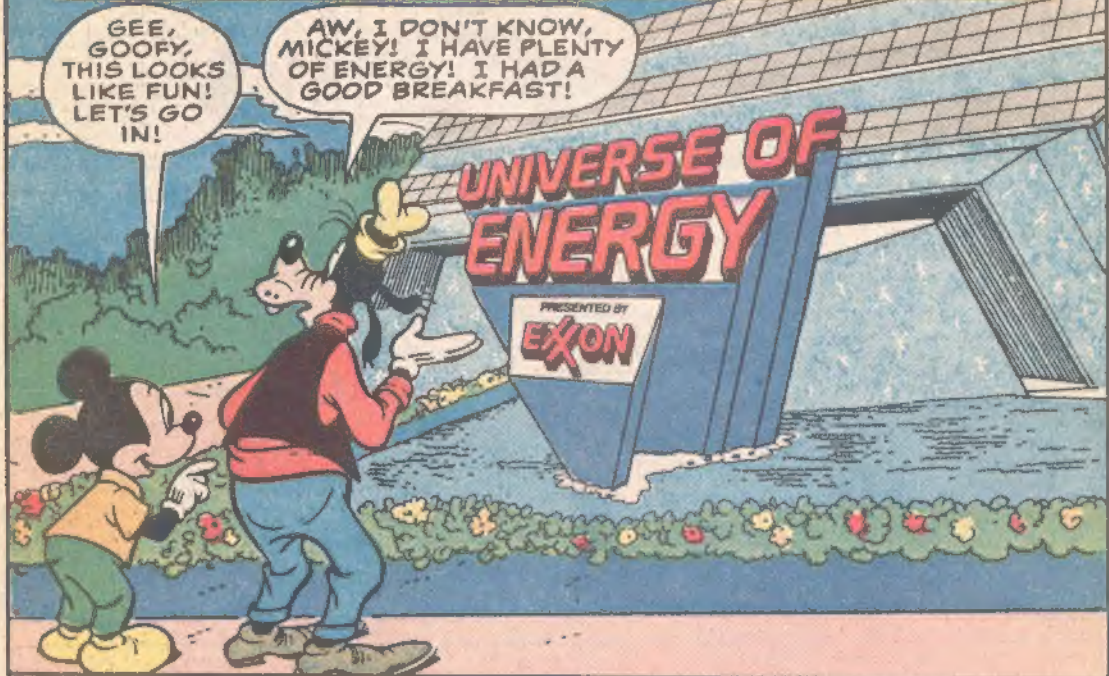
## DOWN

1. Power from "out of thin air"
2. Accomplishes work
3. Oil drilling apparatus
7. Power from our nearest star
8. Power from uranium atoms
10. Not on land
12. Process of splitting atoms creating energy
16. Abundant U.S. energy source

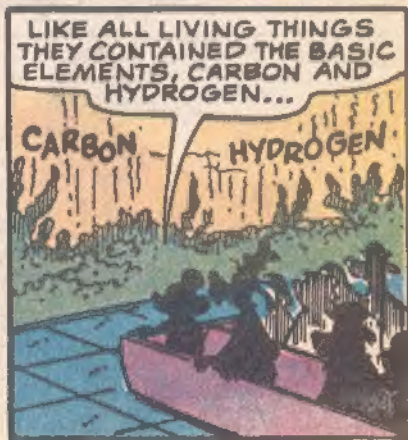
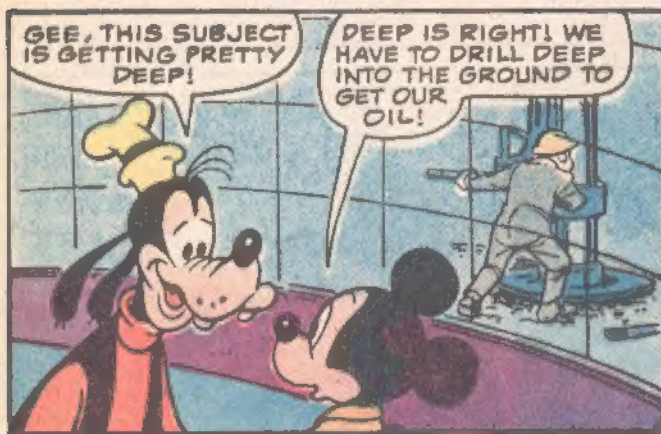
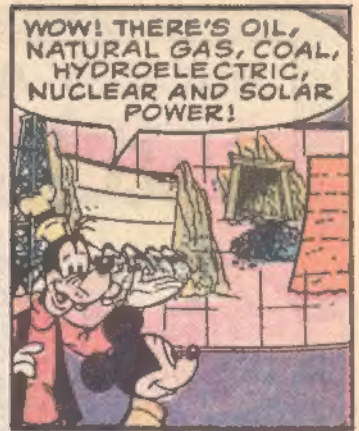
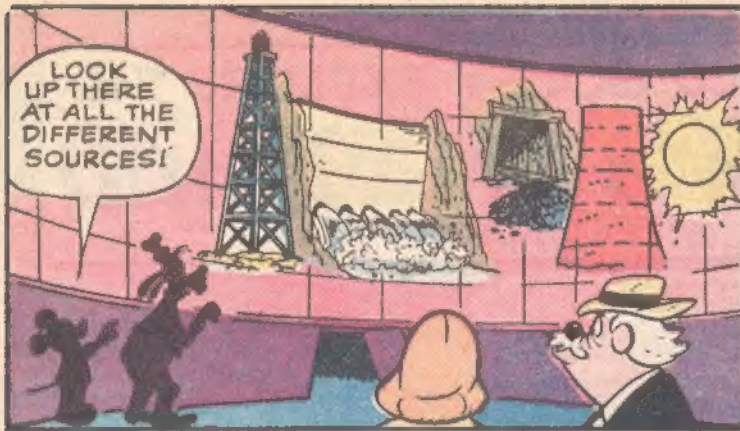
Answers on inside back cover



# MICKEY AND GOOFY EXPLORE THE **Universe of Energy** at EPCOT Center

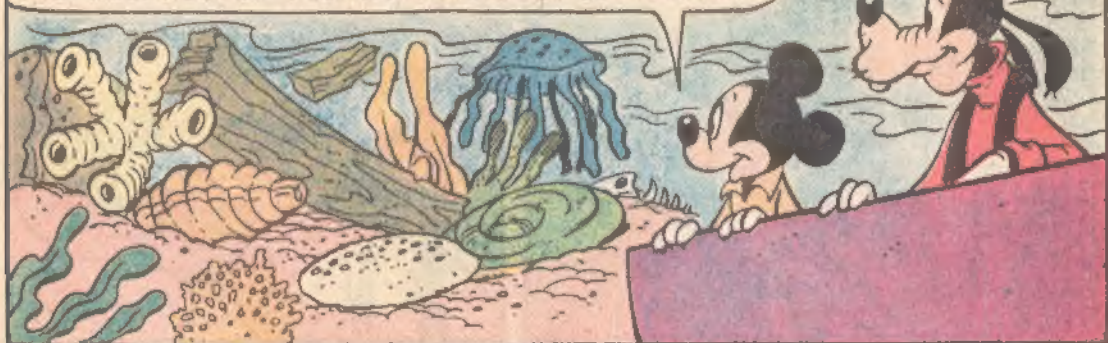




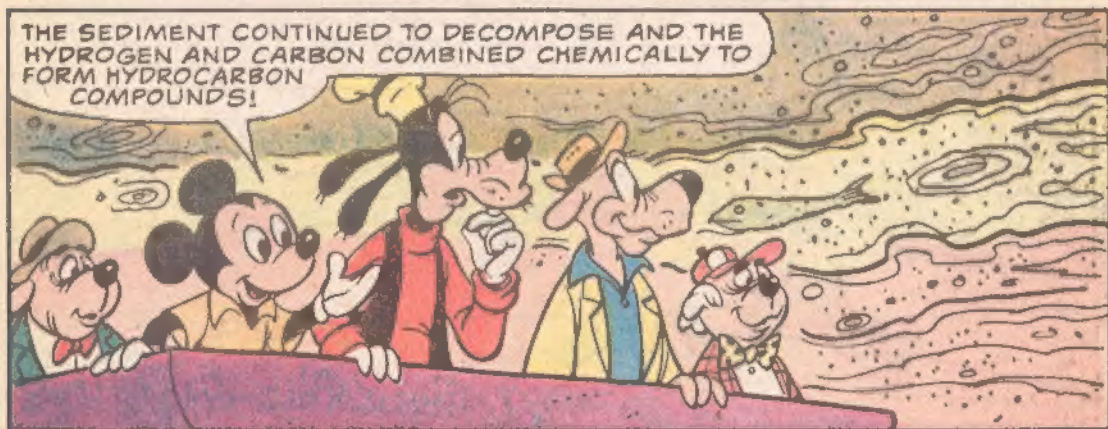




AS THE YEARS PASSED, THE REMAINS OF LIVING THINGS SETTLED TO THE BOTTOM OF LAKES, MARSHES AND OCEANS, AND FORMED LAYERS OF SEDIMENT...



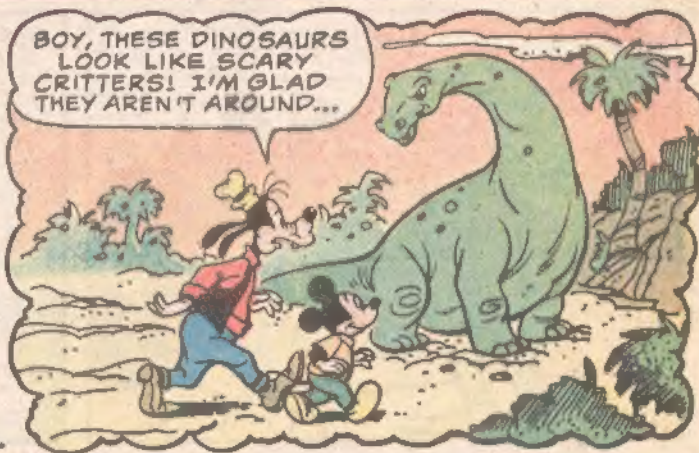
THE SEDIMENT CONTINUED TO DECOMPOSE AND THE HYDROGEN AND CARBON COMBINED CHEMICALLY TO FORM HYDROCARBON COMPOUNDS!



THESE CHEMICAL CHANGES IN THE EARTH EVENTUALLY FORMED THE OIL AND NATURAL GAS WE USE TODAY!



BOY, THESE DINOSAURS LOOK LIKE SCARY CRITTERS! I'M GLAD THEY AREN'T AROUND...



YEEOW!

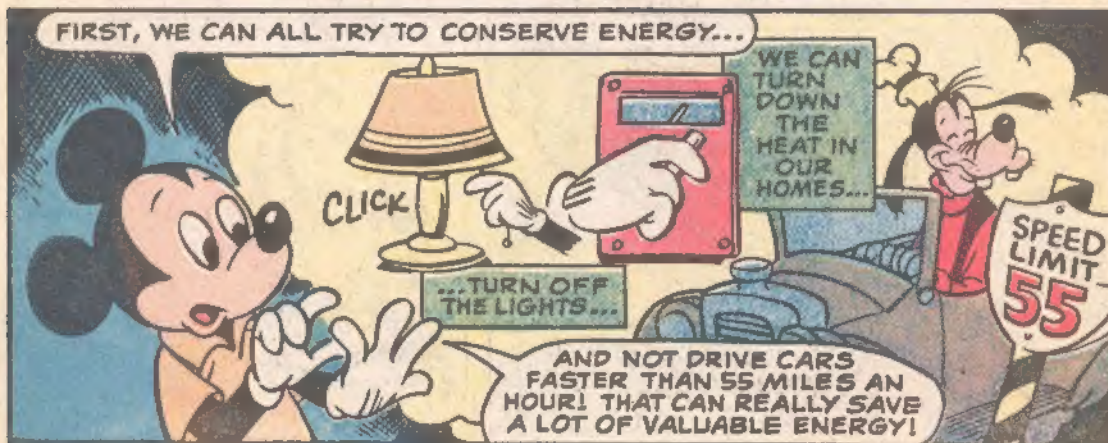
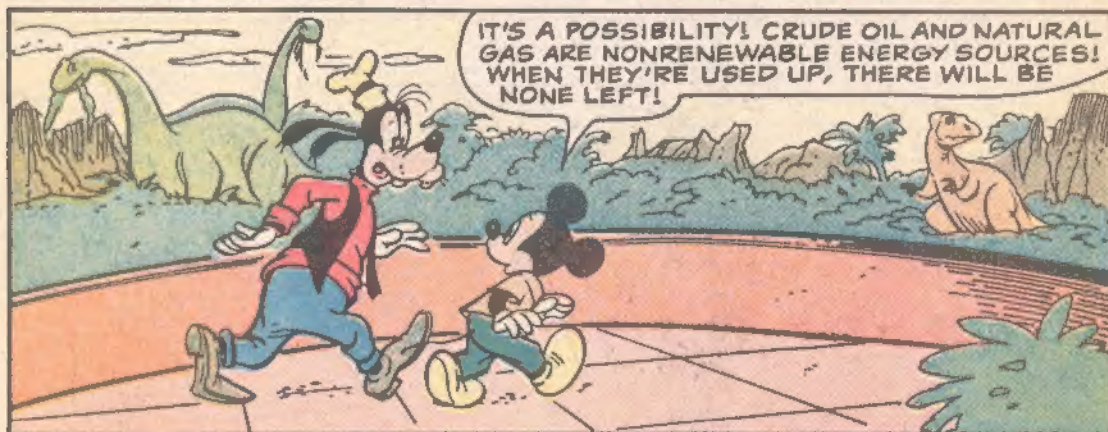
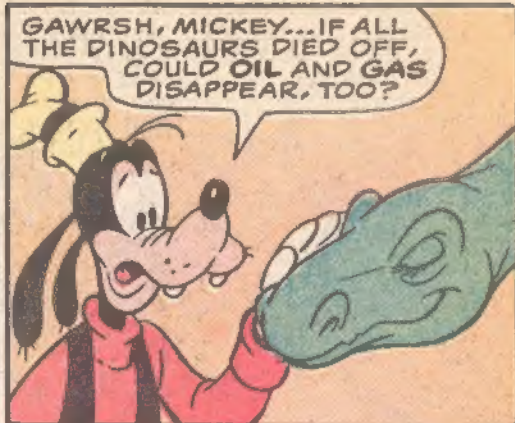


H-H-HELP!!

RELAX, GOOFY!

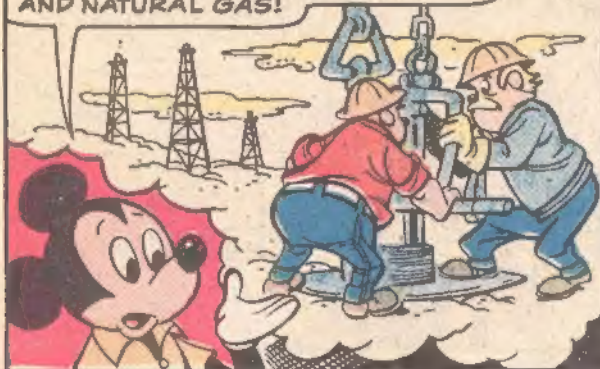






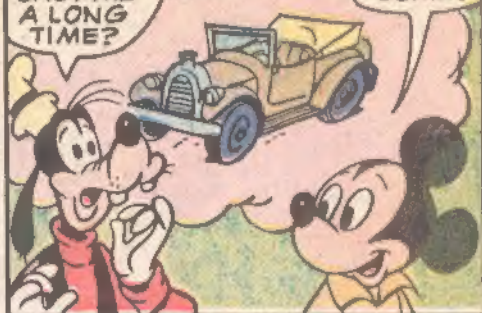


ALSO, WE NEED TO EXPLORE FOR NEW SUPPLIES OF CRUDE OIL AND NATURAL GAS!

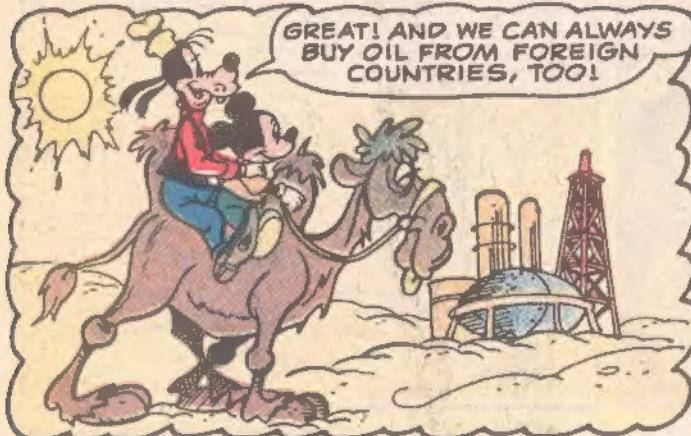


YOU MEAN, OL' BESSIE'S GONNA LAST ME A LONG TIME?

SURE, GOOFEY! OIL CAN SUPPLY YOUR CAR'S ENERGY NEEDS FOR MANY YEARS TO COME!



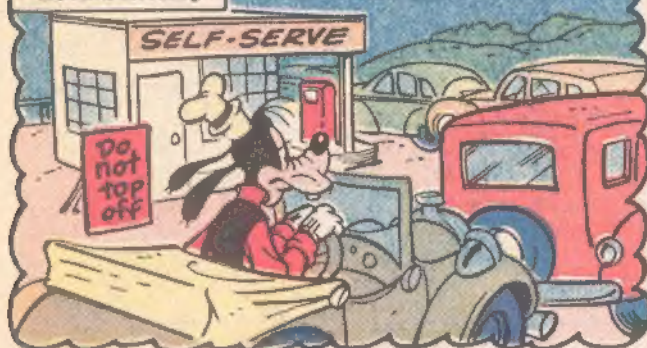
GREAT! AND WE CAN ALWAYS BUY OIL FROM FOREIGN COUNTRIES, TOO!



SOMETIMES WE CAN'T DEPEND ON OTHER COUNTRIES! SINCE 1973, OUR FOREIGN OIL SUPPLY HAS BEEN CUT OFF TWICE!

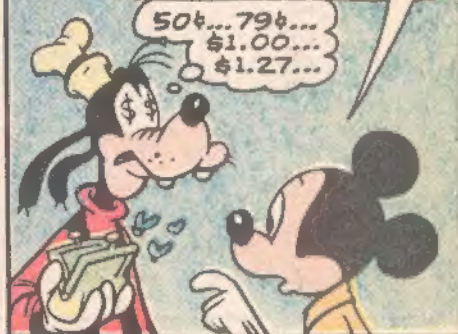


"OH, YEAH—I REMEMBER HOW OL' BESSIE HAD TO WAIT IN LOOOONNNGG LINES FOR GASOLINE!"



AND BECAUSE GASOLINE WAS SCARCE, IT BECAME VERY EXPENSIVE, TOO!

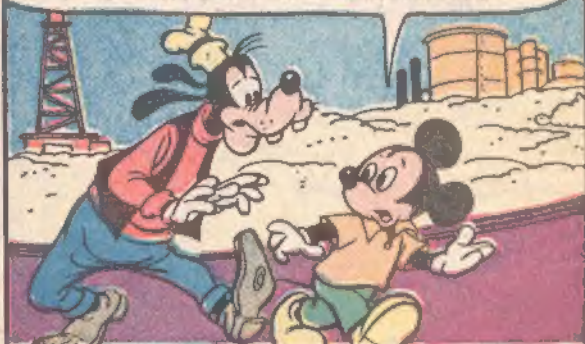
50¢... 79¢...  
\$1.00...  
\$1.27...



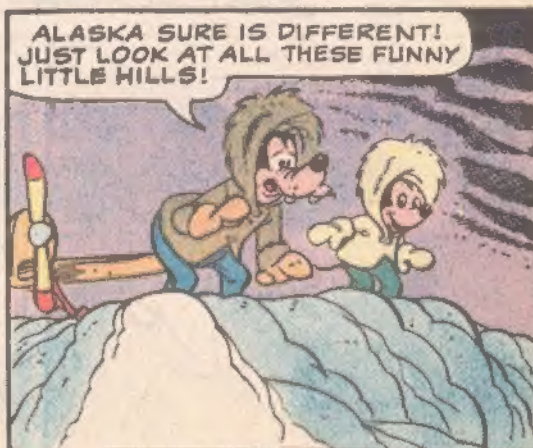
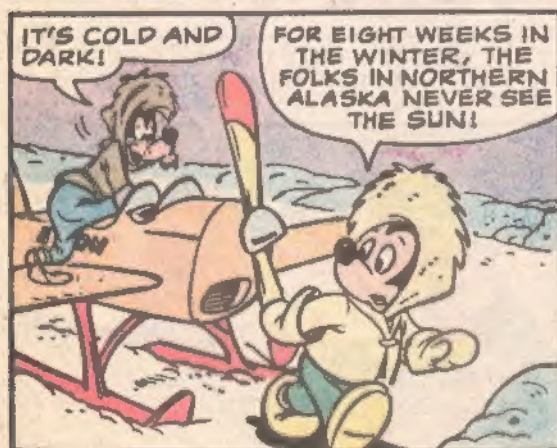
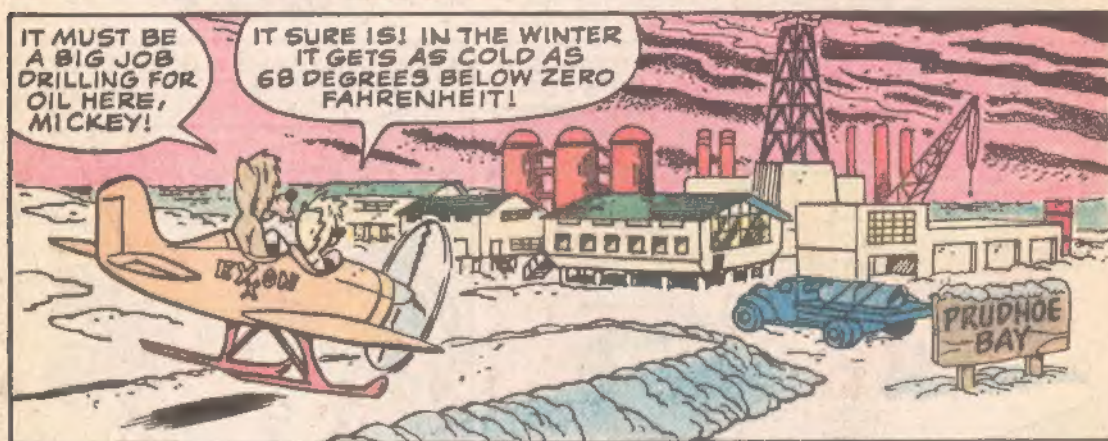
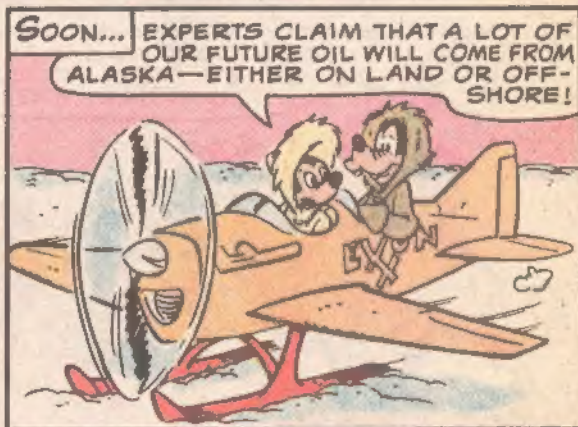
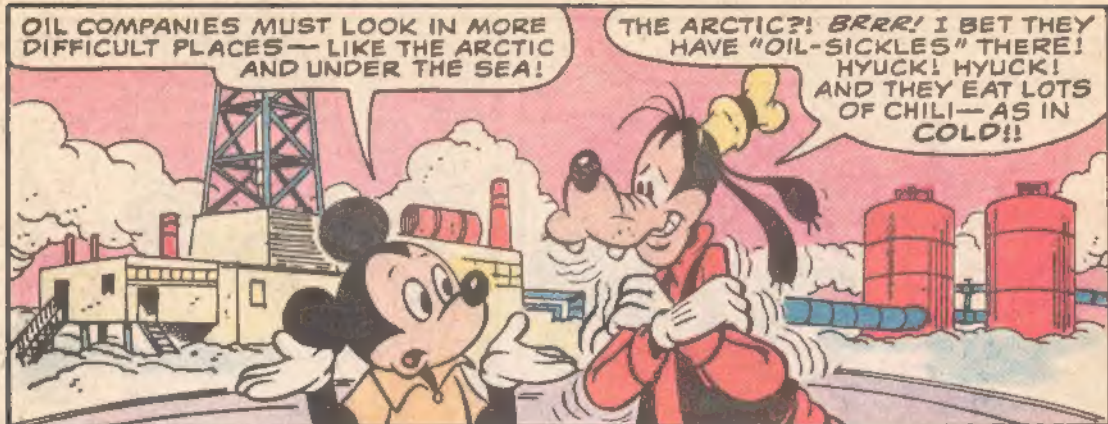
GAWRSH, MICK... THAT "SCARCE" ME A LOT!



YES, GOOFEY—BUT IT WILL HELP IF WE CAN FIND NEW SOURCES OF OIL IN OUR OWN COUNTRY!

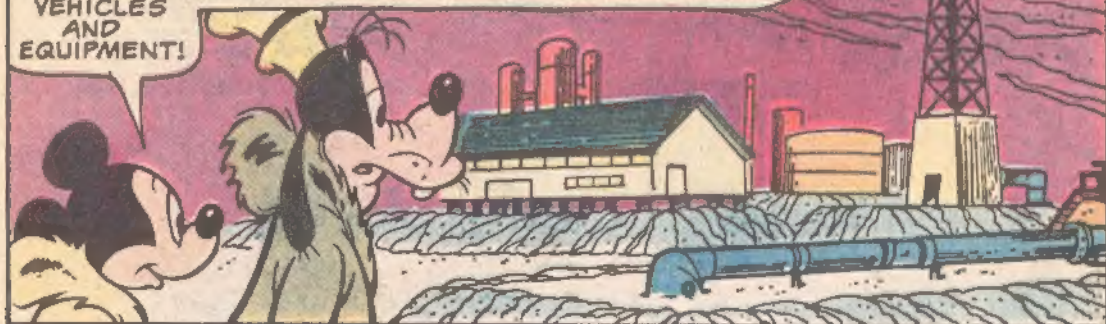






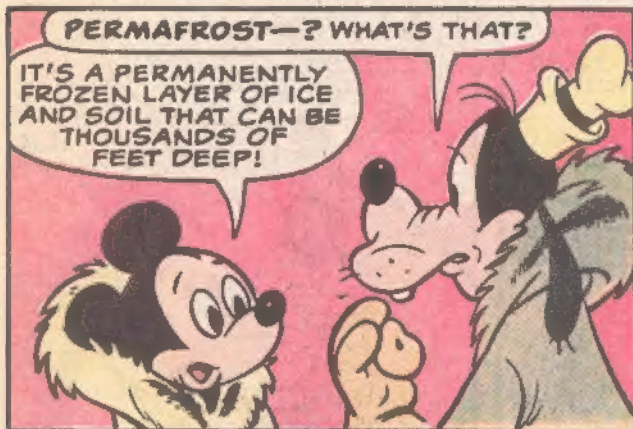


THEY'RE NOT HILLS, GOOFY— THEY'RE INSULATING  
PADS MADE WITH SAND OR GRAVEL! THEY PROTECT THE  
LAND AND KEEP THE PERMAFROST FROM MELTING DUE  
TO HEAT AND PRESSURE CAUSED BY LARGE MOVING  
VEHICLES  
AND  
EQUIPMENT!



PERMAFROST—? WHAT'S THAT?

IT'S A PERMANENTLY  
FROZEN LAYER OF ICE  
AND SOIL THAT CAN BE  
THOUSANDS OF  
FEET DEEP!



WOW! I BET NO ONE  
HAS TO WORRY ABOUT  
ICE CREAM MELTING  
HERE! HYUCK!



NOPE! IN THE WINTER,  
ICE COVERS JUST ABOUT  
EVERYTHING AROUND  
HERE— MOST OF THE  
LAND, AND SOME OF  
THE WATER, TOO!



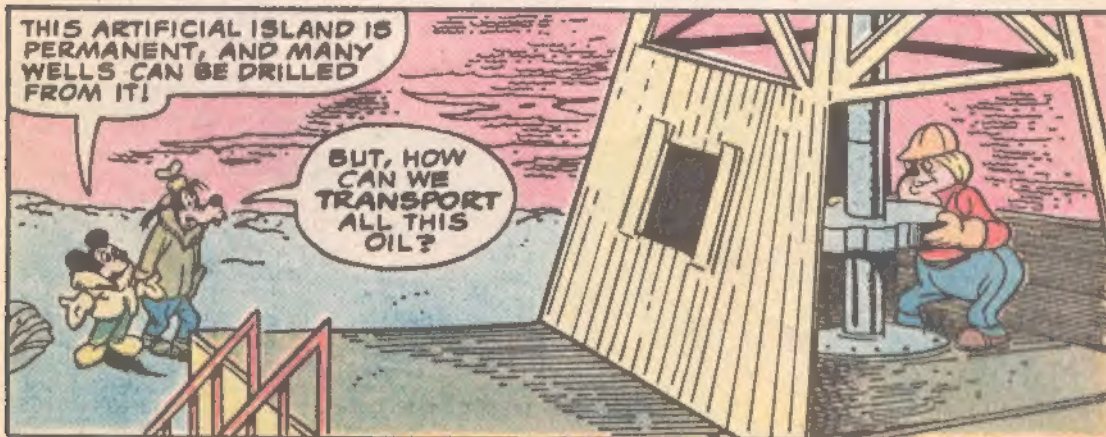
HEY, MICK—WHAT'S THAT??

IT'S AN  
ARTIFICIAL  
ISLAND  
MADE OUT OF  
GRAVEL!

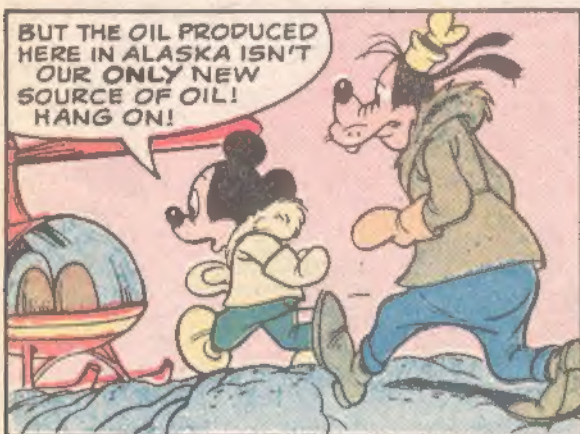
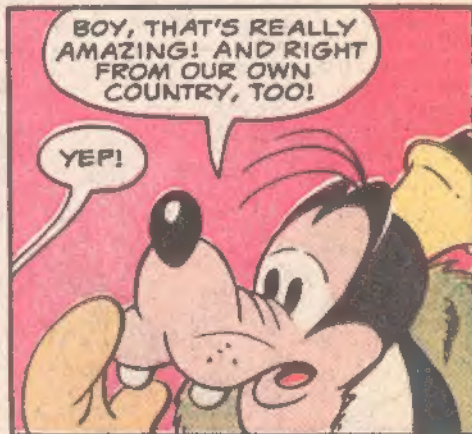
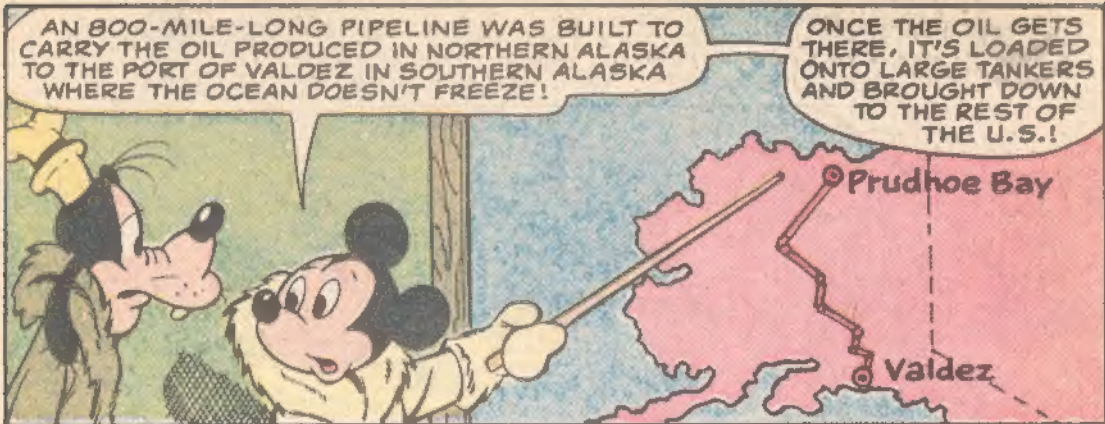


THIS ARTIFICIAL ISLAND IS  
PERMANENT, AND MANY  
WELLS CAN BE DRILLED  
FROM IT!

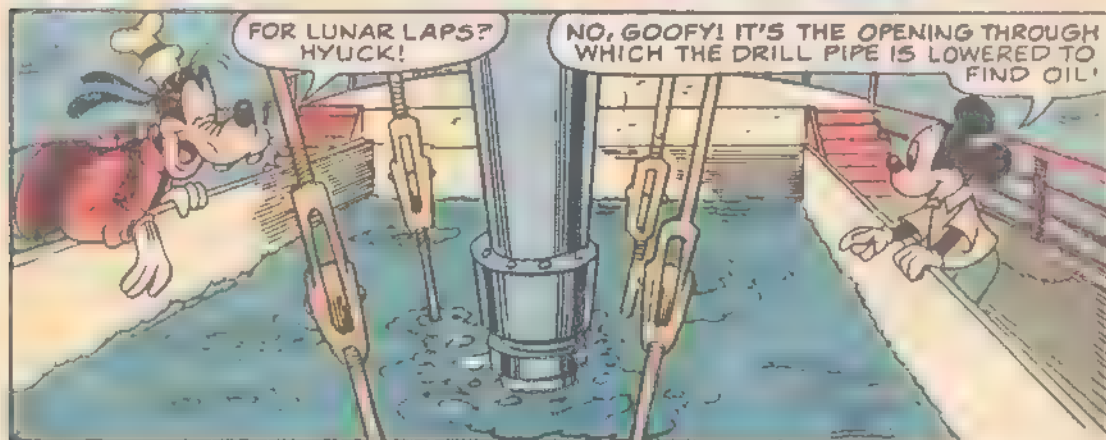
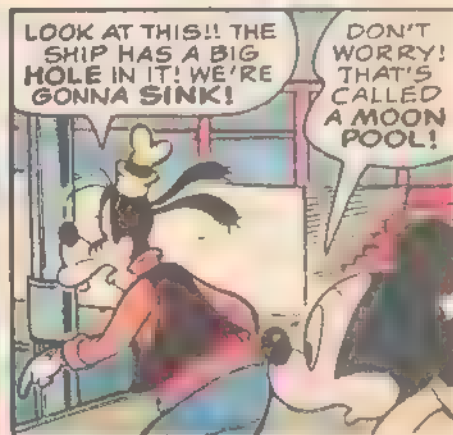
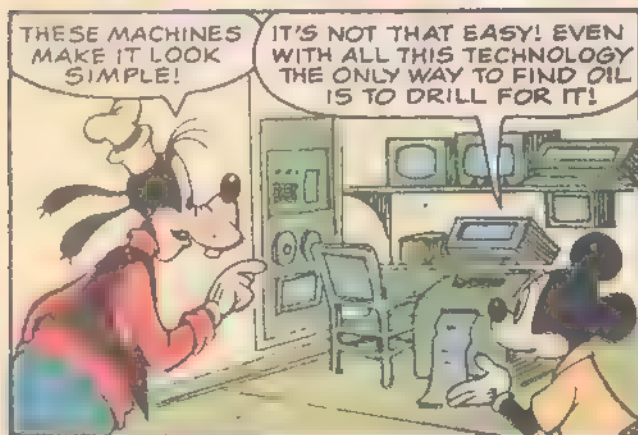
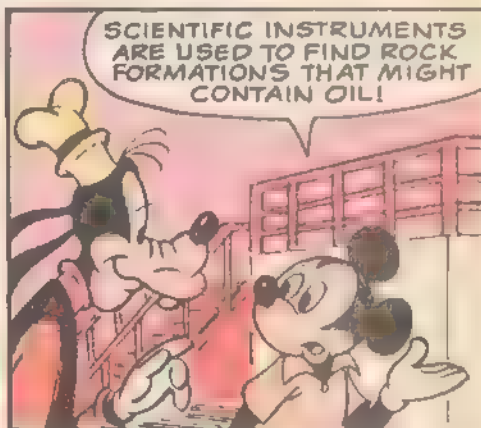
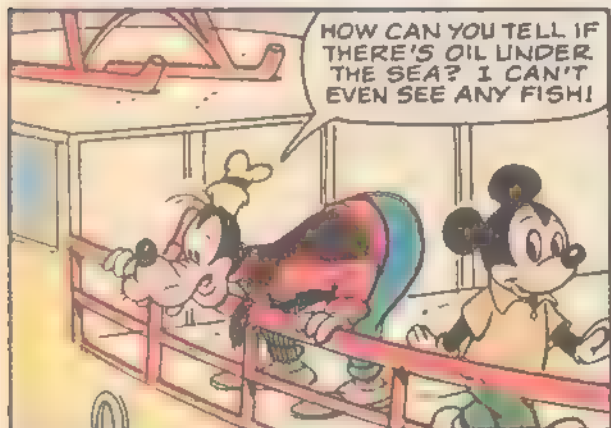
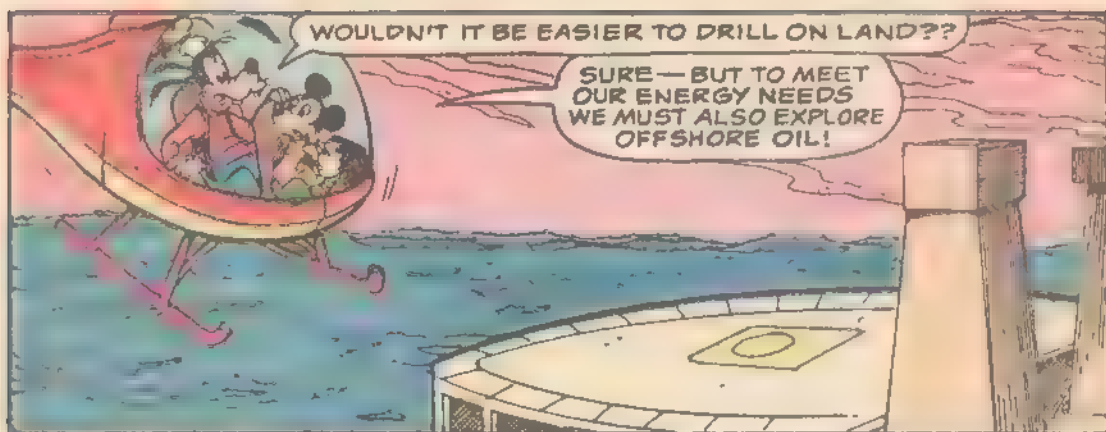
BUT, HOW  
CAN WE  
TRANSPORT  
ALL THIS  
OIL?



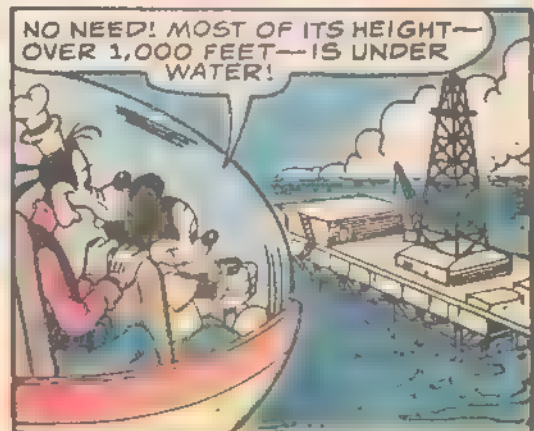
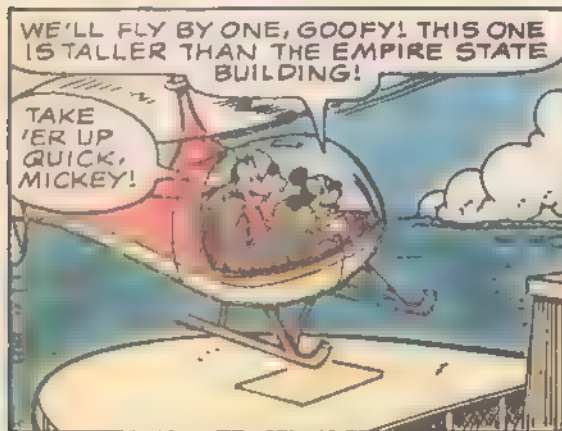
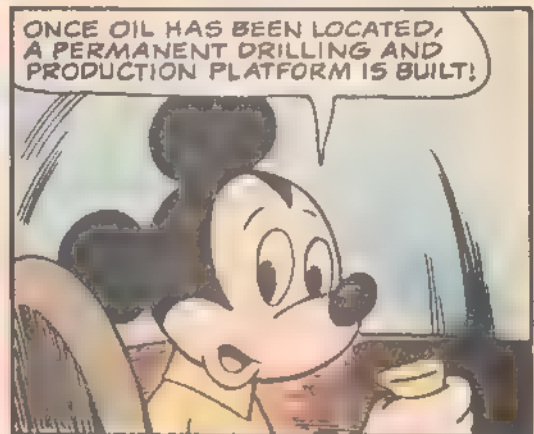
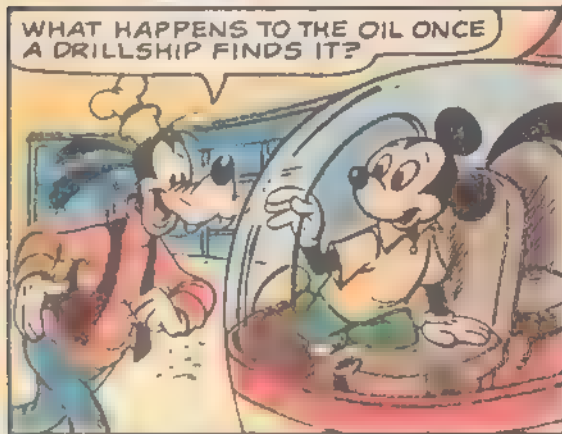
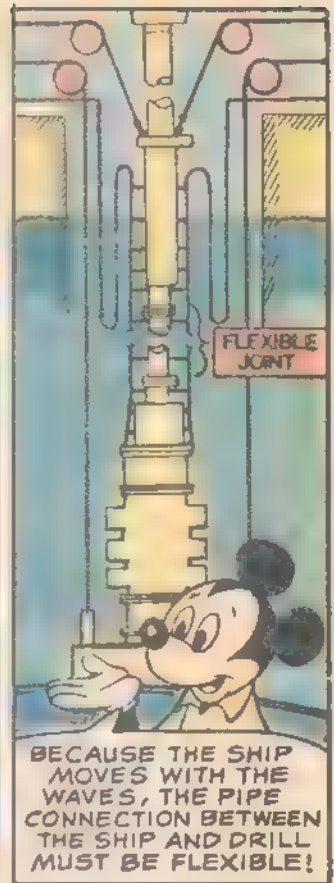
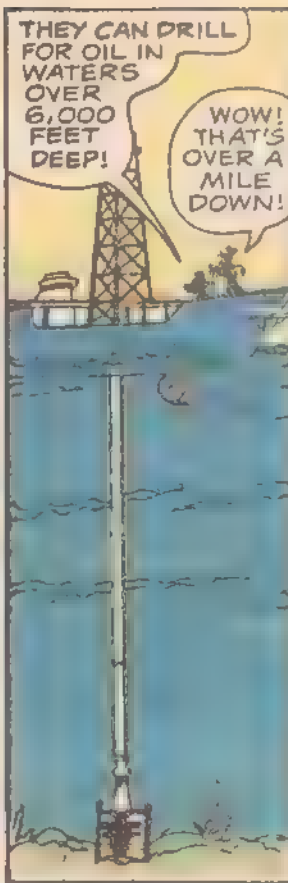














THIS PLATFORM IS AMAZING! IT WEIGHS MORE THAN 59,000 TONS AND COSTS 750 MILLION DOLLARS TO BUILD!

GAWRSH! THAT'S EXPENSIVE!

YUP! SO OIL COMPANIES ARE ALWAYS DEVELOPING MORE EFFICIENT WAYS TO FIND OIL!

GEE, MICKEY—NOW THAT I KNOW HOW VALUABLE OIL IS, I SURE HOPE WE NEVER RUN OUT!

ME, TOO! OIL IS THE BEST FUEL FOR TRANSPORTATION, BUT WE ALSO NEED OTHER FORMS OF ENERGY, TOO!

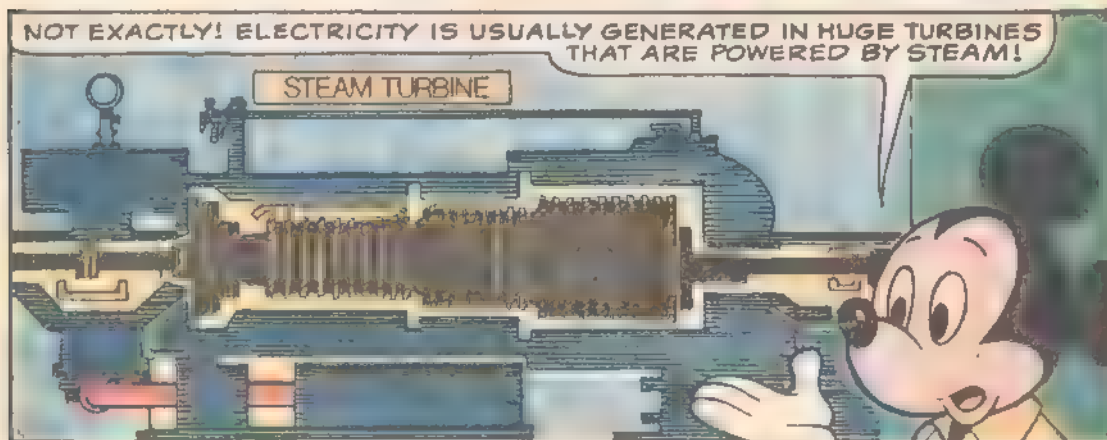
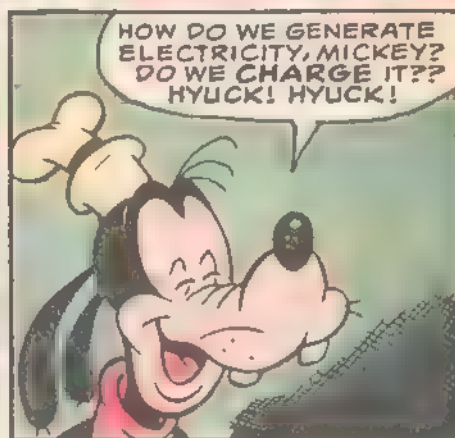
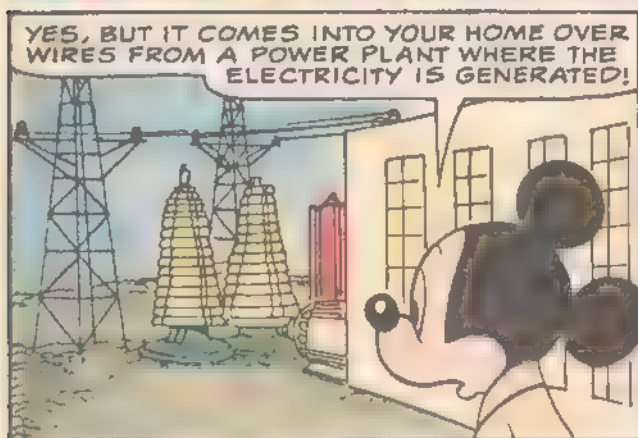
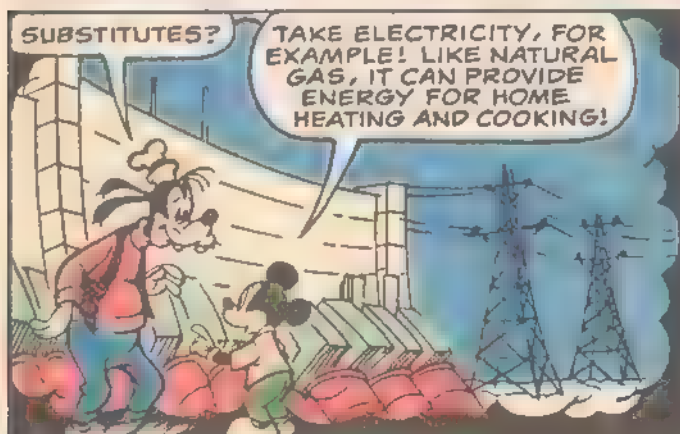
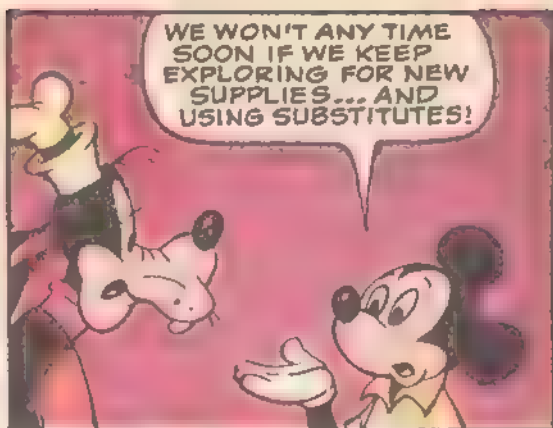
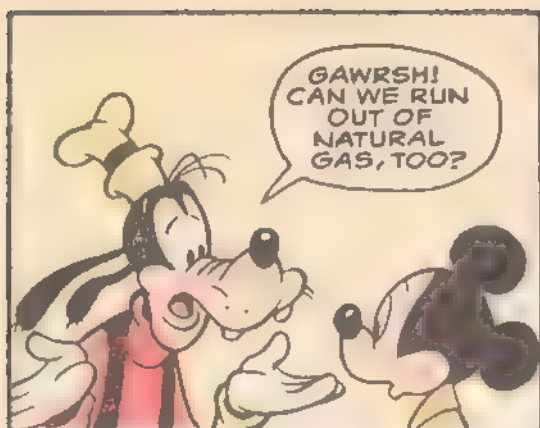
REMEMBER, WE ALSO USE ENERGY FOR HEAT, LIGHT, AND FOR INDUSTRY!

NATURAL GAS IS USED IN FACTORIES AND IN OUR HOMES FOR COOKING AND HEATING! IT'S GREAT BECAUSE IT BURNS SO CLEANLY!

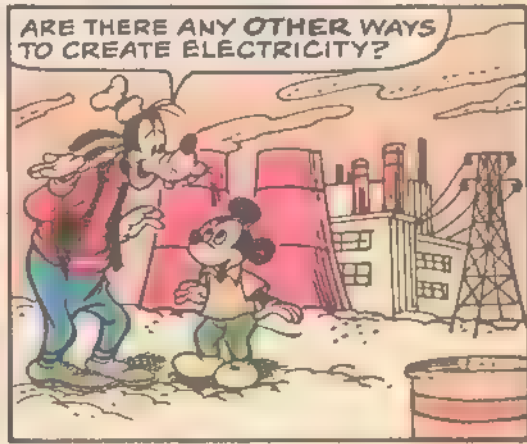
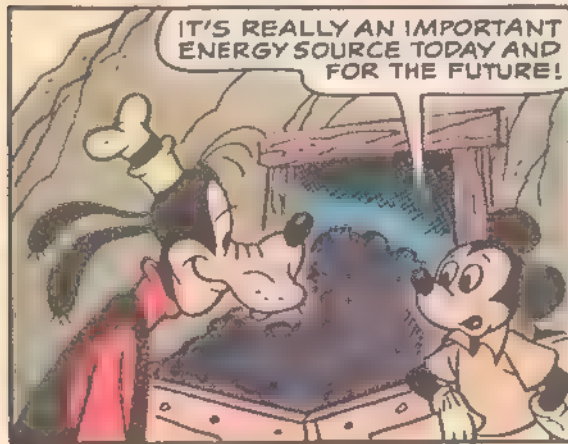
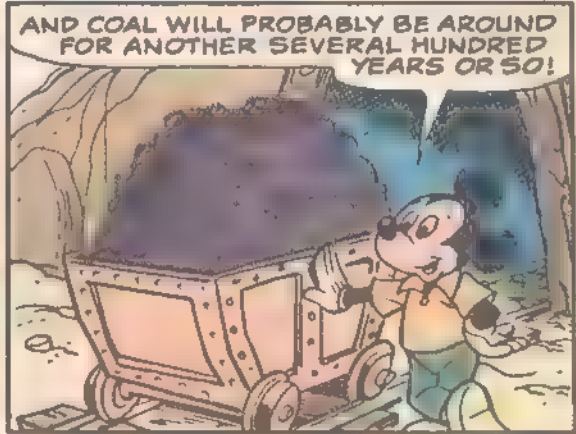
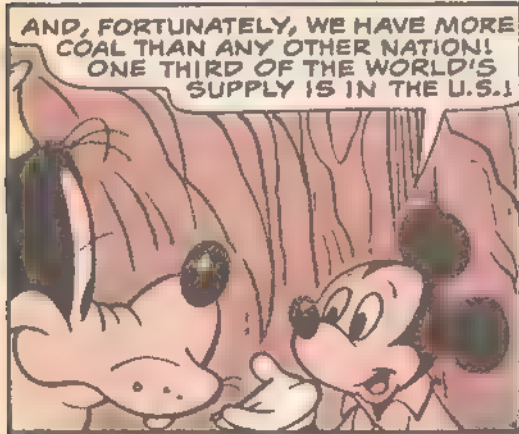
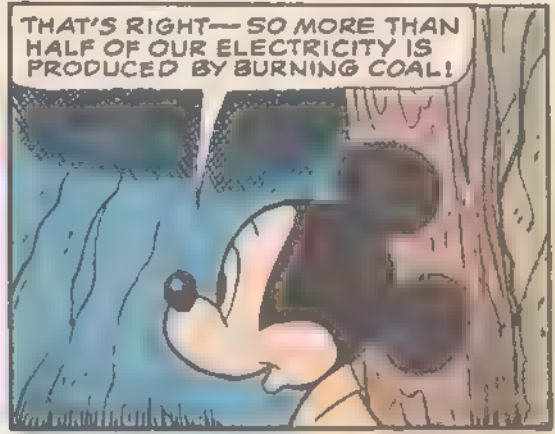
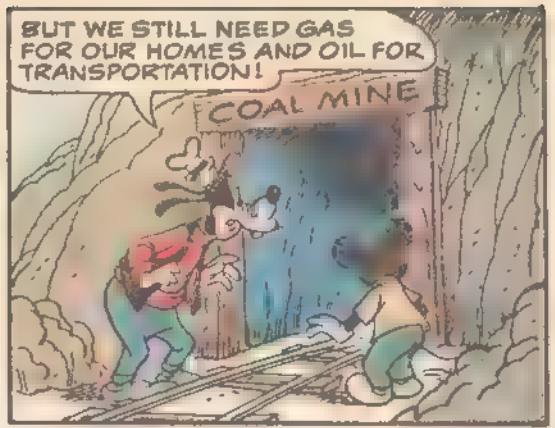
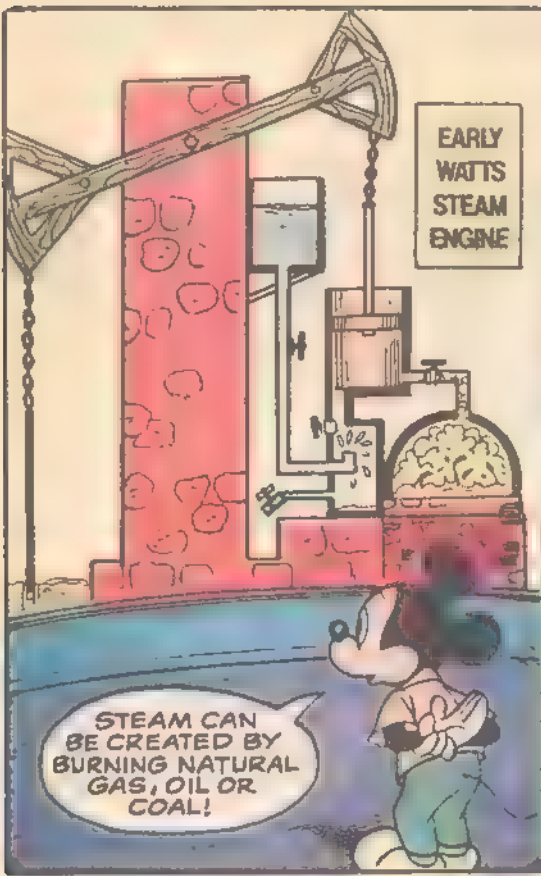
BOY, NATURAL GAS MUST BE IN BIG DEMAND!

IT IS! BUT, LIKE OIL, OUR PRESENT SUPPLIES ARE LIMITED!

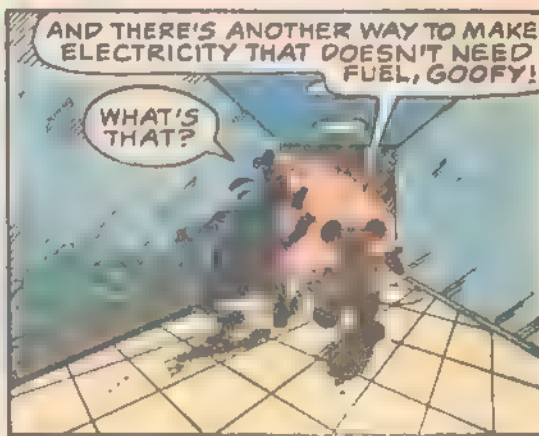
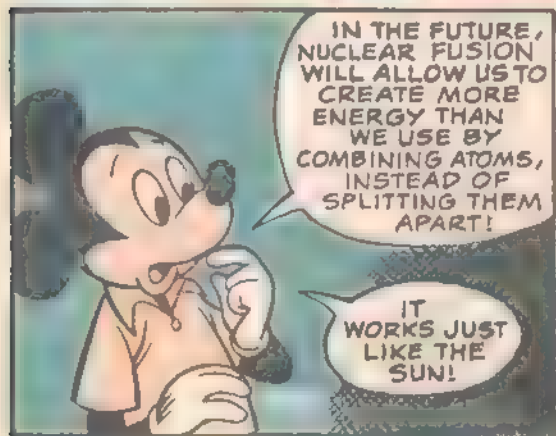
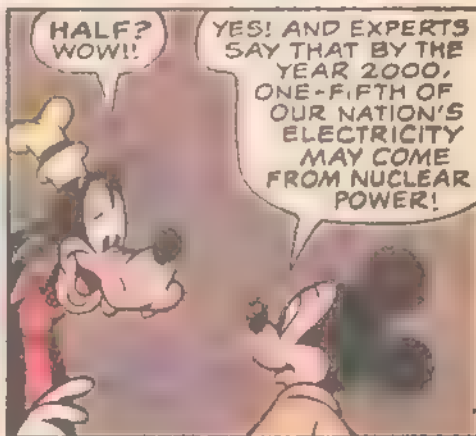
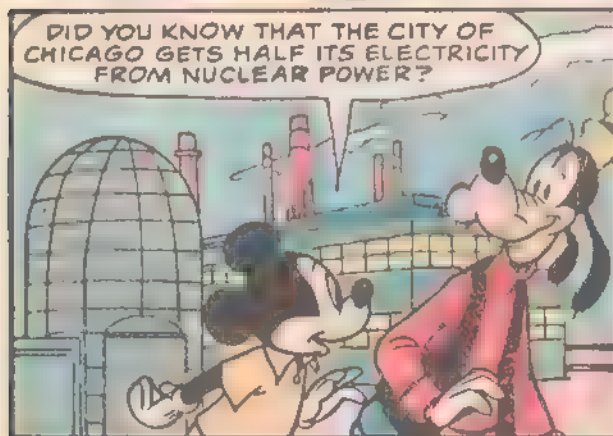
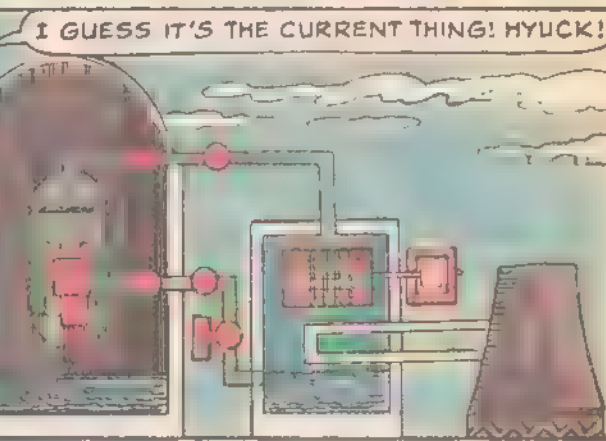
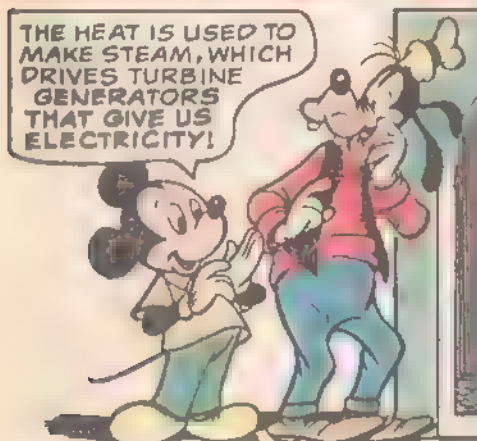
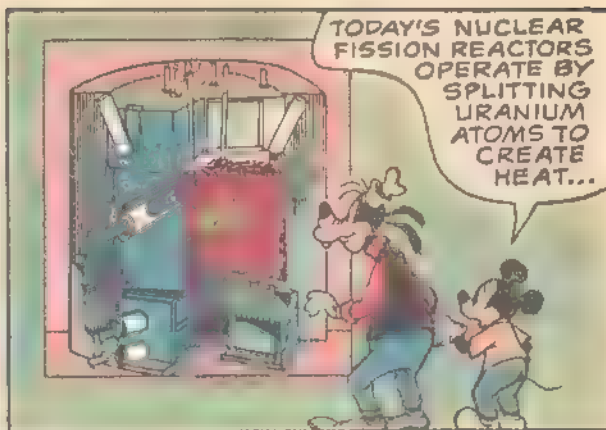
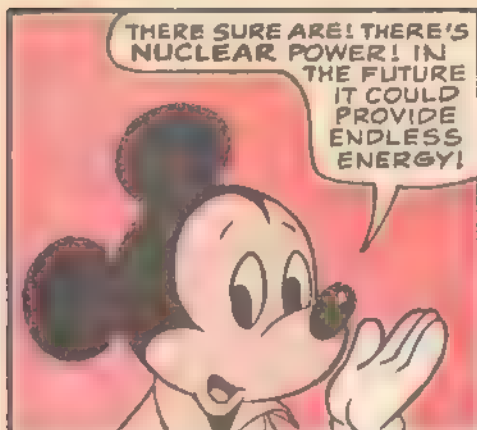








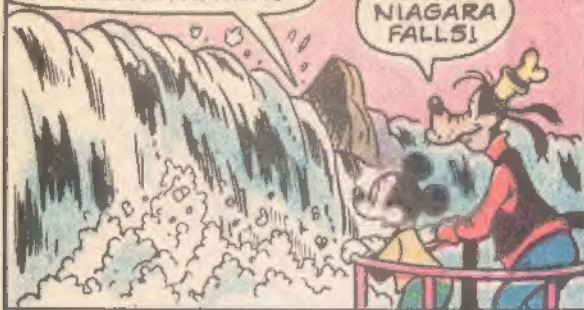




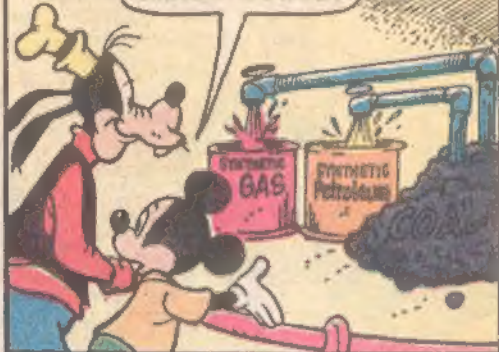


HYDROELECTRIC POWER! IN PLACES WHERE THERE ARE NATURAL OR MAN-MADE DAMS, ELECTRICITY IS GENERATED BY THE POWERFUL FORCE OF FALLING WATER!

LIKE NIAGARA FALLS!



AND, RESEARCHERS ARE HARD AT WORK DEVELOPING SYNTHETIC LIQUID FUELS!



WHAT ARE THOSE?

THEY'RE SPECIAL FUELS THAT ARE MADE FROM THINGS LIKE ROCKS!



HUH? ARE YOU JOKING, MICK??

NOPE! COME ON, I'LL SHOW YOU!



BACK AT THE UNIVERSE OF ENERGY...

WATCH OUT! THAT ROCK'S ON FIRE!!

IT'S CALLED OIL SHALE! WHEN IT'S CRUSHED AND HEATED, A TYPE OF OIL CAN BE COLLECTED AND MADE INTO GASOLINE AND OTHER LIQUID FUELS!



WOW! THAT'S COOL—I MEAN, HOT!

RESEARCHERS ARE WORKING ON PRACTICAL WAYS OF CONVERTING OIL SHALE INTO A USEABLE LIQUID FUEL OR GAS! THEY'RE COMBINING SCIENTIFIC PRINCIPLES WITH IMAGINATION!

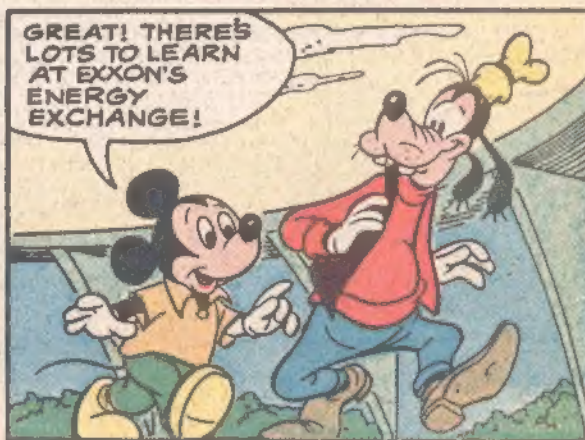
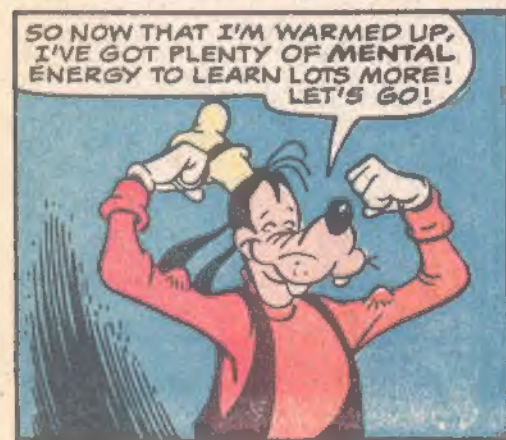
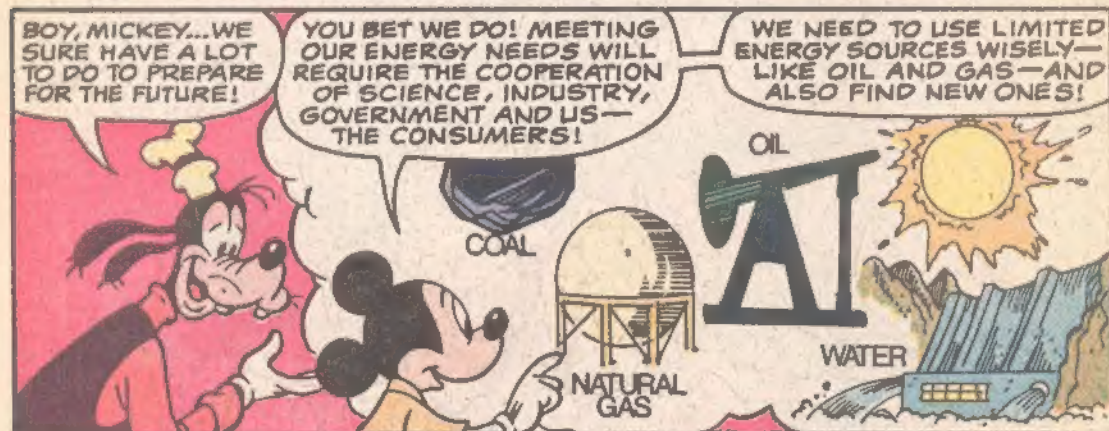
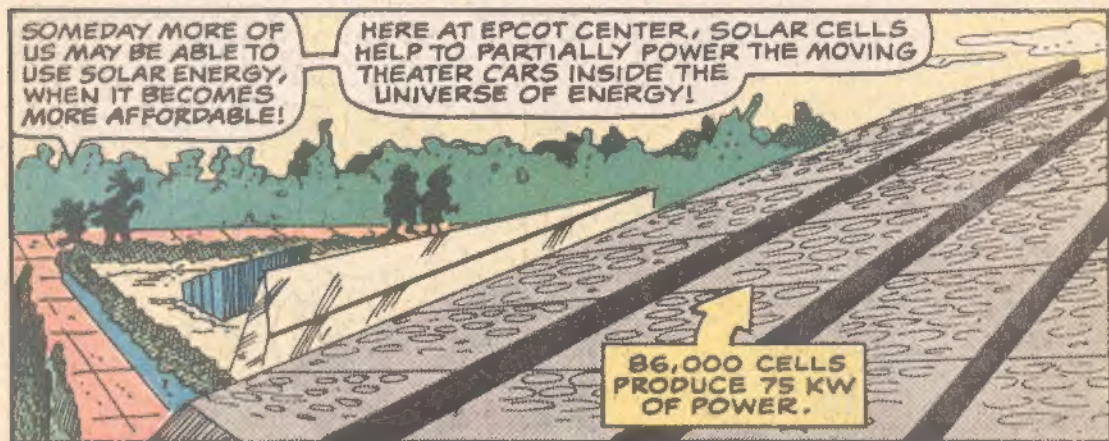
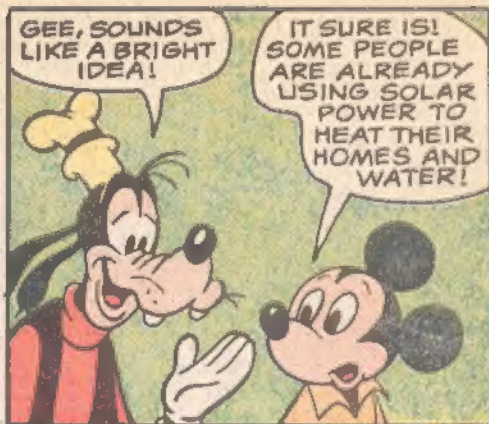
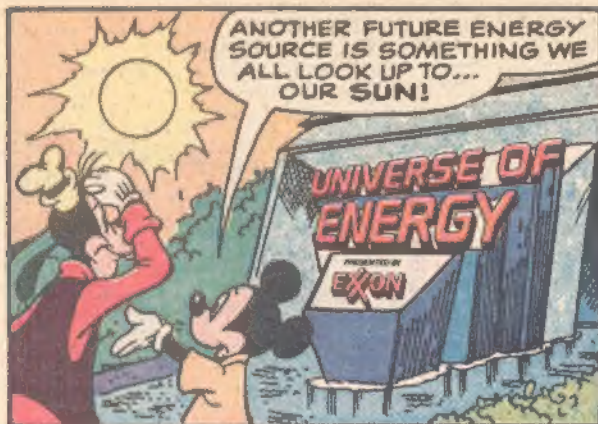


SOUNDS LIKE IT ALSO TAKES ANOTHER IMPORTANT THING—MONEY!

RIGHT YOU ARE! SYNTHETIC FUELS HAVE GREAT POTENTIAL! BUT, RIGHT NOW, THEY COST TOO MUCH TO PRODUCE!



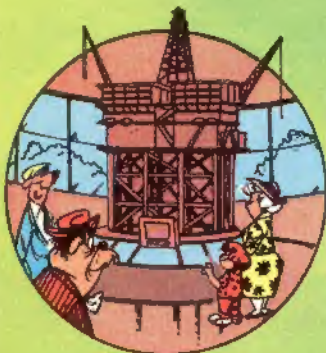




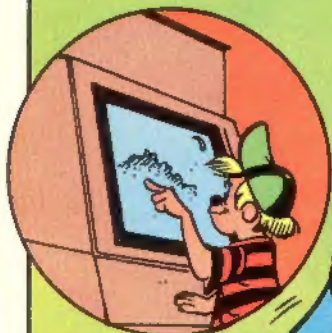


# ENERGY EXCHANGE

Presented by EXON to add to your energy knowledge.



OFFSHORE DRILLING



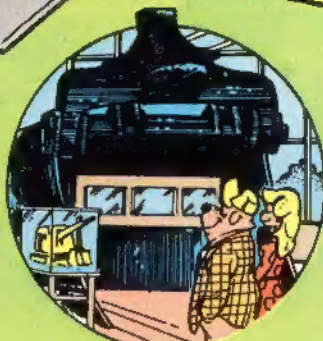
ENERGY  
INFORMATION  
TERMINALS



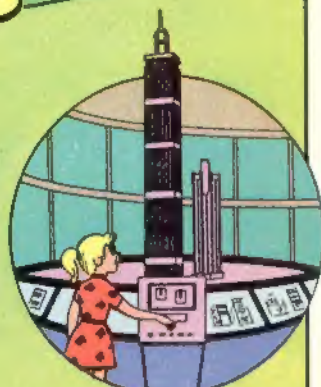
JUST THINK  
HOW YOU'D  
FEEL AFTER  
PEDALING AT  
THIS RATE FOR  
NINE DAYS!  
THAT'S HOW  
LONG IT WOULD  
TAKE YOU TO  
PRODUCE THE  
SAME AMOUNT  
OF ENERGY IN  
ONE GALLON  
OF GASOLINE!



OIL SHALE



COAL



NUCLEAR

ACROSS—2. Electricity, 4. Steam, 5. Drill, 6. Gasoline, 9. Oil, 11. Platform, 13. Drillship, 14. Gas, 15. Arctic.  
DOWN—1. Wind, 2. Energy, 3. Rig, 7. Solar, 8. Nuclear, 10. Offshore, 12. Fission, 16. Coal.  
The word PETROLEUM





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